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NASA Procedural Requirements

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Subject: Requirements for Documentation, Approval, and Dissemination of NASA Scientific and Technical Information (Updated w/change 2, 12/9/14)

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Appendix J. Reference List for International System of Units (SI)

J.1 IEEE/ASTM-S1 10 "Standard for Use of the International System of Units (SI)--The Modern Metric System."

J.2 Reference List for SI Measurements: Artusa, Elisa A.: SI (Metric) Handbook. NASA TM-109197, 1994. Provides information for an understanding of SI units, symbols, and prefixes, and of style and usage in documentation in both the U.S. and in the international business community; conversion techniques; limits, fits, and tolerance data; and drawing and technical writing guidelines. Also provides information on SI usage for specialized applications like data processing and computer programming, science, engineering, and construction. Related information in the appendixes includes legislative documents, historical and biographical data, a list of SI documentation, rules for determining significant digits and rounding, conversion factors, shorthand notation, and a unit index.

J.3 U.S. Metric Association (USMA): Conversion Factors. Northridge, CA: Order from USMA Web site: <http://amar.colostate.edu/~hillger/>. A comprehensive one-page table that provides conversion factors from both inch-pound units to SI and from SI to inch-pound units. Shows the conversion factors for length, area, volume, torque, mass, energy/work, power, pressure/stress, force, speed, and temperature.

J.4 Institute of Electrical and Electronics Engineers: American National Standard Illustrations for Publication and Projection. ANSI Y15.1M, ANSI, New York, 1979 (1986).

J.5 American National Metric Council: Metric Editorial Guide, Fifth Edition, Bethesda, MD, 1993. Explains and illustrates proper use of International System of Units (SI), terms, and symbols. Provides standard spelling, punctuation, and usage for SI terms, abbreviations, and symbols.

J.6 Pedde, Lawrence D., et al.: Metric Manual. U.S. Bureau of Reclamation, GPO S/N024-0003-00129-5. Washington, DC, 1978. Presents the basics of International System of Units (SI), conversion techniques, and examples of engineering problems associated with SI conversion.

J.7 USMA's Guide to the Use of the Metric System (SI Version). 15th ed., 2000.

J.8 STI Metric Style Manual for Written and Computer Usage, <http://amar.colostate.edu/~hillger/supplies.htm>.

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